U.S. DEPARTMENT OF COMMERCE
National Technical Information Service

PB-259 652

EVALUATION REPORT ON WATER POLLUTION CONTROL PROGRAM PLAN FOR THE STATE OF NORTH DAKOTA DEPARTMENT OF HEALTH ENVIRONMENTAL HEALTH AND ENGINEERING SERVICES FY 1971

Federal Water Pollution Control Administration,
Kansas City, Missouri

September 1970

BIBLIOGRAPHIC DATA SHEET	1. Report No.	2.	3. Recipient's Accession No. PB-259 652
4. Title and Subtitle Evaluation Report on Water Pollution Control Program Plan for the State of North Dakota Department of Health Environmental Health and Engineering Services FY 1971.			5. Report Date September 1970 6.
7. Author(s)			8. Performing Organization Rept. No.
9. Performing Organization Name and Address Federal Water Pollution Control Administration Kansas City, Missouri Missouri Basin Region			10. Project/Task/Work Unit No. 11. Contract/Grant No.
12. Sponsoring Organization Name and Address			13. Type of Report & Period Covered 14.

15. Supplementary Notes See also PB-259 651.
(PC A03/MF A01)

16. Abstracts

Contents:
Status of interstate and intrastate water quality standards; Improvements or expansion proposed by the agency; General adequacy of the agency's staff, budget organization, and statutes; FWQA recommendations which are most urgent for improving the state program; Additional comments; Summarize known accomplishments during previous fiscal year; Pollution control surveillance and enforcement; Water pollution control facilities; Training; Pollution control studies and planning; Public information; Evaluation rating.

17. Key Words and Document Analysis. 17a. Descriptors

*Water pollution
*North Dakota
Water pollution abatement
Project planning
Standards
Recommendations
Statutes
Law enforcement
Water pollution control
Sewage treatment
Industrial waste treatment
Education
Municipalities
Personnel
Construction
Specifications
Agriculture
Evaluation

17b. Identifiers/Open-Ended Terms

*Water pollution standards
Interstate commissions

17c. COSATI Field/Group 13B

18. Availability Statement	19. Security Class (This Report)	21. No. of Pages
National Technical Information Service Springfield, VA 22161	UNCLASSIFIED	37
	20. Security Class (This Page) UNCLASSIFIED	22. Price PC$4.00/ MF$3.00

FORM NTIS-38 (REV. 10-73) ENDORSED BY ANSI AND UNESCO. THIS FORM MAY BE REPRODUCED USCOMM-DC 8265-P74

316047

I 67.2:
N81d/971

PB 259 652

EVALUATION REPORT

WATER POLLUTION CONTROL PROGRAM PLAN
FOR THE STATE OF NORTH DAKOTA
DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH AND ENGINEERING SERVICES
FY 1971

U. S. Department of the Interior
Federal Water Quality Administration
Missouri Basin Region, Planning and Program Grants
Kansas City, Missouri September 1970

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U. S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

TABLE OF CONTENTS

	Page
SUMMARY EVALUATION	
1. STATUS OF INTERSTATE AND INTRASTATE WATER QUALITY STANDARDS	1
2. IMPROVEMENTS OR EXPANSION PROPOSED BY THE AGENCY	1
3. GENERAL ADEQUACY OF THE AGENCY'S STAFF, BUDGET, ORGANIZATION, AND STATUTES	1
4. FWQA RECOMMENDATIONS WHICH ARE MOST URGENT FOR IMPROVING THE STATE PROGRAM	1
5. ADDITIONAL COMMENTS	3
6. SUMMARIZE KNOWN ACCOMPLISHMENTS DURING PREVIOUS FISCAL YEAR	3
ANALYSIS OF PROGRAM ELEMENTS	
3. POLLUTION CONTROL SURVEILLANCE AND ENFORCEMENT	4
3.1 Water Quality Standards and Compliance	4
3.2 Water Quality Monitoring	7
3.3 Effluent Controls	10
3.4 Inspection of Treatment Plants	12
3.5 Certification of Waste Treatment Plant Operators	14
3.6 Enforcement and Regulation	16
4. WATER POLLUTION CONTROL FACILITIES	18
4.1 Review of Plans and Specifications	18
4.2 Municipal Construction Assistance	20
4.3 Industrial Waste Treatment Assistance	22
4.4 Pollution Control Priorities	24
5. TRAINING	26
5.1 Training of Waste Treatment Plant Personnel	26
5.2 Staff Training	28
6. POLLUTION CONTROL STUDIES AND PLANNING	30
7. PUBLIC INFORMATION	32

Evaluation rating

SUMMARY EVALUATION

NORTH DAKOTA

FISCAL YEAR 1971 PROGRAM PLAN

EVALUATION RATING: GOOD ADEQUATE MARGINAL POOR

1. STATUS OF INTERSTATE AND INTRASTATE WATER QUALITY STANDARDS:

North Dakota's Standards are considered adequate in light of recently approved amendments and the addition of a nondegradation provision. All exceptions have now been corrected.

2. IMPROVEMENTS OR EXPANSION PROPOSED BY THE AGENCY:

Complete feedlot inventory and establish feedlot standards.

Apply for continuation of CAMPS grant for training of water and sewer system operators.

Continue inventory of industrial wastes.

Assist the Souris-Red-Rainy River Basin Commission in developing the water quality management section of a comprehensive plan for water and related land resources in these three basins.

Increase emphasis on control of wastes from sources other than municipal and normal industry.

3. GENERAL ADEQUACY OF THE AGENCY'S STAFF, BUDGET, ORGANIZATION AND STATUTES:

The agency seems to have a well-organized and coordinated program with other State agencies having responsibilities in the land and water resources field. Main problem as far as organization is concerned continues to be the lack of staff, specifically man-years of effort assigned to pollution control on a full time basis. There is an immediate need for at least 16 to 18 additional personnel, particularly in light of new regulations pertaining to basin and regional planning.

4. FWQA RECOMMENDATIONS WHICH ARE MOST URGENT FOR IMPROVING THE STATE PROGRAM:

The present staff and budget is less than 30 percent of what is needed. Additional engineers, sanitarians, along with supporting clerical assistance is needed. Laboratory and field support should be increased by acquiring an aquatic biologist, a bacteriologist, aids and clerical assistance. A planner, a planning assistant or aide and a clerk will be needed to meet new planning requirements for construction grants.

It will be necessary for the State to develop river basin, regional, or metropolitan water quality control plans within the next two years under Title 18 (code of Federal Regulations), to be eligible for either State program grants or construction grants assistance.

SUMMARY EVALUATION (con't.)

4. Annual inspection of municipal and industrial facilities.
   Adopt feedlot standards and regulations.
   Water quality data be placed in FWQA's STORET.
   Require discharge permits and reporting from all waste treatment facilities.
   Continue operator training program under CAMPS and establish mandatory certification program.
   Develop a 25 percent State construction grant assistance program to receive maximum Federal assistance.
   Strongly urge that the industrial waste inventory and the subbasin water quality management portion of the State water plan be completed as soon as possible.

5. ADDITIONAL COMMENTS:

This grant application is for the second year of their biennial program, thus, it does not allow for major budget or staffing changes.

6. SUMMARIZE KNOWN ACCOMPLISHMENTS DURING THE PREVIOUS FISCAL YEAR:

Major accomplishments include:

a. Amended the Standards including the nondegradation provision as recommended by the Secretary of the Interior.

b. Developed and implemented adequate contingency plan.

c. Applied for, and received, a CAMPS grant to assist in training 40 operators.

d. Continued feedlot inventory and regulations.

e. Completed two sub-river basin water quality management studies for the State Water Plan.

f. Continued efforts to complete industrial waste inventory.

ANALYSIS OF PROGRAM ELEMENTS

PLAN ELEMENT: 3 POLLUTION CONTROL SURVEILLANCE AND ENFORCEMENT

PLAN SECTION: 3.1 WATER QUALITY STANDARDS AND COMPLIANCE

EVALUATION RATING: ~~GOOD~~ ADEQUATE ~~MARGINAL~~ ~~POOR~~

1. SUMMARIZE THE ACTIVITY OR FUNCTION AND COMMENT ON ITS ADEQUACY AS IT RELATES TO THE STATE'S TOTAL WATER POLLUTION CONTROL EFFORT:

North Dakota's Standards are considered adequate in light of the recently approved amendments and the inclusion of a non-degradation provision. Progress is being made in obtaining compliance. All industries and municipalities ordered to take corrective action as listed in the FY 1970 and FY 1971 plans have initiated or completed corrective action except for the extension of the compliance dates for Abercrombie and Marmarth. The State indicates no further changes in the standards are anticipated. The FWQA will probably be requesting revision and updating of all State standards within a year or two.

2. IMPROVEMENTS OR EXPANSION PROPOSED BY THE AGENCY:

a. Feedlot inventory is underway. Preliminary groundwork has started on corrective measures to be taken by feedlot operators. The Soil Conservation Service plans to assist operators in constructing needed facilities. State Water Pollution Control Board intends setting hearing date on the proposed feedlot standards this plan year.

b. The Agency is considering running fecal coliform analysis in addition to standard coliform test on stream samples.

3. GENERAL ADEQUACY OF THE AGENCY'S STAFF, BUDGET, ORGANIZATION AND STATUTES AS THEY RELATE TO SECTION BEING REVIEWED:

Approximately 40 percent of the manpower and 31 percent of the budget is allotted to this plan element, a slight decrease from last year's expenditures. While statutes are generally adequate, funding is poor. A minimum of 5-6 man-years of effort is needed for this element. The FY 1972 estimated budget indicates no improvement in the near future.

4. FWQA RECOMMENDATIONS WHICH ARE MOST URGENT FOR IMPROVING THE STATE PROGRAM:

a. Inadequate financing resulting in a manpower shortage is the most serious problem.

b. Annual inspection of municipal and industrial facilities is necessary to insure compliance with standards and efficient operation.

c. Adoption of feedlot standards and regulations as soon as possible.

d. Increase emphasis on control of wastes from all sources.

3.1 (con't)

4. e. Incorporate into the Water Quality Standards a policy of secondary treatment in agreement with the plan of implementation in which all listed needs indicate secondary treatment is necessary.

5. ADDITIONAL COMMENTS:

NONE

6. SUMMARIZE KNOWN ACCOMPLISHMENTS DURING THE PREVIOUS FISCAL YEAR:

a. Ten communities constructed needed waste treatment facilities.

b. Of the two remaining industries having compliance dates, one has completed corrective action and the other has initiated construction.

c. Strengthened water quality standards by including the addition of a non-degradation provision. Standards now approved without exception by the Secretary of the Interior, May 22, 1970.

ANALYSIS OF PROGRAM ELEMENTS

PLAN ELEMENT: 3 POLLUTION CONTROL SURVEILLANCE AND ENFORCEMENT

PLAN SECTION: 3.2 WATER QUALITY MONITORING

EVALUATION RATING: ~~GOOD~~ ~~ADEQUATE~~ MARGINAL ~~XFOOR~~

1. SUMMARIZE THE ACTIVITY OR FUNCTION AND COMMENT ON ITS ADEQUACY AS IT RELATES TO THE STATE'S TOTAL WATER POLLUTION CONTROL EFFORT:

The monitoring program remains unchanged. A cooperative program is maintained at 30 sampling stations. No change is anticipated in sampling frequency or monitoring locations. The State's monitoring program when considered with the programs of the U.S.G.S., U.S. Corps of Engineers, and National Water Quality appears adequate, however, expanded "in house" monitoring and laboratory support coupled with annual treatment plant inspections is necessary for the State's program to be completely effective.

2. IMPROVEMENTS OR EXPANSION PROPOSED BY THE AGENCY:

The State is considering running fecal coliform in addition to standard coliform tests on stream samples. This data will be useful when the State Standards are updated to include fecal coliform criteria.

3. GENERAL ADEQUACY OF THE AGENCY'S STAFF, BUDGET, ORGANIZATION AND STATUTES AS THEY RELATE TO SECTION BEING REVIEWED:

Agency's staff and budget is not adequate. Less than 2-1/2 man-years of effort are assigned to the entire Pollution Control Surveillance and Enforcement element. This effort includes less than half a man-year in laboratory effort.

4. FWQA RECOMMENDATIONS WHICH ARE MOST URGENT FOR IMPROVING THE STATE PROGRAM:

a. Place all water quality data in central file system under management of the Department of Health and in FWQA's STORET system.

b. Increase staff, including at least one full-time chemist, laboratory technician, bacteriologist and aquatic biologist. One person should be included that has the training and experience in water quality and waste treatment so that optimum sampling and analysis will be made to achieve the most useful information for the efforts expended.

3.2 (con't)

4. c. Establish additional stations, particularly at significant waste discharge points in order to meet the program outlined in the Water Quality Standards.

5. ADDITIONAL COMMENTS:

The State recommended in their Plan that FWQA establish monitoring stations at three points: Yellowstone River, Sidney, Montana; Souris River near entrance to North Dakota; and James River at North-South Dakota border. The FWQA has already established stations at two of the recommended locations.

6. SUMMARIZE KNOWN ACCOMPLISHMENTS DURING THE PREVIOUS FISCAL YEAR:

Twenty-six stations routinely monitored by the State.

ANALYSIS OF PROGRAM ELEMENTS

PLAN ELEMENT: 3 POLLUTION CONTROL SURVEILLANCE AND ENFORCEMENT

PLAN SECTION: 3.3 EFFLUENT CONTROLS

EVALUATION RATING: GOOD ADEQUATE MARGINAL POOR

1. SUMMARIZE THE ACTIVITY OR FUNCTION AND COMMENT ON ITS ADEQUACY AS IT RELATES TO THE STATE'S TOTAL WATER POLLUTION CONTROL EFFORT:

This section is unchanged from that submitted last year. A permit system is not used. Control of effluents is basically exercised through State statute which requires the Pollution Board to review and approve plans and specifications for waste treatment facilities prior to construction. Effluent standards are in effect for the Red River of the North. Only three communities and one industry submit monthly operating reports. The Regional Office worked with the State in setting up a contingency plan. The plan is now in effect and a meeting was held in August 1970 to formalize the program.

2. IMPROVEMENTS OR EXPANSION PROPOSED BY THE AGENCY:

NONE

3. GENERAL ADEQUACY OF THE AGENCY'S STAFF, BUDGET, ORGANIZATION AND STATUTES AS THEY RELATE TO SECTION BEING REVIEWED:

Budget, staff, organization and statutes are not adequate.

4. FWQA RECOMMENDATIONS WHICH ARE MOST URGENT FOR IMPROVING THE STATE PROGRAM:

Develop necessary regulations and legislation to require discharge permits and reporting from all waste treatment plants and to meet construction grant requirements. Increase staff and budget so as to implement an effective permit and reporting program.

5. ADDITIONAL COMMENTS:

NONE

6. SUMMARIZE KNOWN ACCOMPLISHMENTS DURING THE PREVIOUS FISCAL YEAR:

An adequate contingency plan was developed.

ANALYSIS OF PROGRAM ELEMENTS

PLAN ELEMENT: 3 POLLUTION CONTROL SURVEILLANCE AND ENFORCEMENT

PLAN SECTION: 3.4 INSPECTION OF TREATMENT PLANTS

EVALUATION RATING: GOOD ADEQUATE MARGINAL POOR

1. SUMMARIZE THE ACTIVITY OR FUNCTION AND COMMENT ON ITS ADEQUACY AS IT RELATES TO THE STATE'S TOTAL WATER POLLUTION CONTROL EFFORT:

Only 34 percent of all municipal facilities and 25 percent of industrial facilities were inspected, a slight decrease from the previous years' effort. The biennial inspection quota for FY 1970 was not achieved.

2. IMPROVEMENTS OR EXPANSION PROPOSED BY THE AGENCY:

The plan shows an increase in plant inspections for this fiscal year as it did last year, but it is doubtful that their goal will be obtained without additional inspection personnel.

3. GENERAL ADEQUACY OF THE AGENCY'S STAFF, BUDGET, ORGANIZATION AND STATUTES AS THEY RELATE TO SECTION BEING REVIEWED:

The State has only three field engineers, none of which work full time in water pollution control. The agency's staff budget and organization is not adequate.

4. FWQA RECOMMENDATIONS WHICH ARE MOST URGENT FOR IMPROVING THE STATE PROGRAM:

All treatment facilities should be inspected at least annually and records of plant operation should be kept continuously. The records should include effluent analysis and the reporting of by-passes and other releases.

5. ADDITIONAL COMMENTS:

NONE

6. SUMMARIZE KNOWN ACCOMPLISHMENTS DURING THE PREVIOUS FISCAL YEAR:

Total of 88 plants inspected.

ANALYSIS OF PROGRAM ELEMENTS

PLAN ELEMENT: 3 POLLUTION CONTROL SURVEILLANCE AND ENFORCEMENT

PLAN SECTION: 3.5 CERTIFICATION OF WASTE TREATMENT PLANT OPERATORS

EVALUATION RATING: GOOD ~~ADEQUATE~~ ~~MARGINAL~~ POOR

1. SUMMARIZE THE ACTIVITY OR FUNCTION AND COMMENT ON ITS ADEQUACY AS IT RELATES TO THE STATE'S TOTAL WATER POLLUTION CONTROL EFFORT:

   Certification of operators is a voluntary process through a program sponsored by the North Dakota Water and Pollution Control Conference. Only two operators certified the preceding year.

2. IMPROVEMENTS OR EXPANSION PROPOSED BY THE AGENCY:

   Program should improve with the continuation of the grant under the Department of Labor's Cooperative Area Manpower Planning Program for training of water and sewer system operators. (For further comment see Section 5.)

3. GENERAL ADEQUACY OF THE AGENCY'S STAFF, BUDGET, ORGANIZATION AND STATUTES AS THEY RELATE TO SECTION BEING REVIEWED:

   Inadequate.

4. FWQA RECOMMENDATIONS WHICH ARE MOST URGENT FOR IMPROVING THE STATE PROGRAM:

   Continue the operator training program under CAMPS and establish a mandatory certification program.

5. ADDITIONAL COMMENTS:

NONE

6. SUMMARIZE KNOWN ACCOMPLISHMENTS DURING THE PREVIOUS FISCAL YEAR:

a. State Department applied for and received a CAMPS grant. The training program is now underway with 40 operators receiving classroom and on-the-job training.

b. Two operators certified in the past year.

ANALYSIS OF PROGRAM ELEMENTS

PLAN ELEMENT: 3 POLLUTION CONTROL SURVEILLANCE AND ENFORCEMENT

PLAN SECTION: 3.6 ENFORCEMENT AND REGULATION

EVALUATION RATING: GOOD ADEQUATE MARGINAL POOR

1. SUMMARIZE THE ACTIVITY OR FUNCTION AND COMMENT ON ITS ADEQUACY AS IT RELATES TO THE STATE'S TOTAL WATER POLLUTION CONTROL EFFORT:

State statutes provide adequate authority to enforce compliance. Enforcement activities and results have been adequate. All municipal and industrial pollutors ordered to make corrections have either completed necessary facilities or construction is underway.

2. IMPROVEMENTS OR EXPANSION PROPOSED BY THE AGENCY:

All pollutors under orders have or are completing construction of facilities. Agency is finalizing feedlot regulations.

3. GENERAL ADEQUACY OF THE AGENCY'S STAFF, BUDGET, ORGANIZATION AND STATUTES AS THEY RELATE TO SECTION BEING REVIEWED:

Though the State has done a commendable job with the personnel on hand, the agency's limited staff is not adequate to locate all violators and initiate corrective measures. This lack of personnel has prevented them also from completing the industrial waste inventory.

4. FWQA RECOMMENDATIONS WHICH ARE MOST URGENT FOR IMPROVING THE STATE PROGRAM:

a. Sizable increase in staff and budget.

b. Complete and adopt feedlot regulations as soon as possible.

c. Evaluate pollution resulting from highway construction to determine what problems, if any, exist.

5. ADDITIONAL COMMENTS:

NONE

6. SUMMARIZE KNOWN ACCOMPLISHMENTS DURING THE PREVIOUS FISCAL YEAR:

One community and two industries have completed corrective action and five communities and two industries are in various stages of construction. Feedlot regulations are being finalized.

ANALYSIS OF PROGRAM ELEMENTS

PLAN ELEMENT: 4 WATER POLLUTION CONTROL FACILITIES

PLAN SECTION: 4.1 REVIEW OF PLANS AND SPECIFICATIONS

EVALUATION RATING: XXXXX ADEQUATE XXXXXXXXX XXXXX

1. SUMMARIZE THE ACTIVITY OR FUNCTION AND COMMENT ON ITS ADEQUACY AS IT RELATES TO THE STATE'S TOTAL WATER POLLUTION CONTROL EFFORT:

State law and review procedures appear adequate with exception noted in Item 4 below. One wonders how 50 to 70 plans can be adequately reviewed and other necessary work performed when there are only four engineers putting two man-years of effort into the entire water pollution control program. No major problems have been noted in State facility review program.

2. IMPROVEMENTS OR EXPANSION PROPOSED BY THE AGENCY:

NONE

3. GENERAL ADEQUACY OF THE AGENCY'S STAFF, BUDGET, ORGANIZATION AND STATUTES AS THEY RELATE TO SECTION BEING REVIEWED:

Statutes adequate. Staff, budget and organization somewhat deficient.

4. FWQA RECOMMENDATIONS WHICH ARE MOST URGENT FOR IMPROVING THE STATE PROGRAM:

Employ additional engineer to be responsible for this function. Additionally, increased emphasis should be placed on waste characteristic data, process selection, and the possible incorporation of advanced waste treatment technology into the State's program.

5. ADDITIONAL COMMENTS:

NONE

6. SUMMARIZE KNOWN ACCOMPLISHMENTS DURING THE PREVIOUS FISCAL YEAR:

No known accomplishments other than the normal plan review of several projects.

ANALYSIS OF PROGRAM ELEMENTS

PLAN ELEMENT: 4 WATER POLLUTION CONTROL FACILITIES

PLAN SECTION: 4.2 MUNICIPAL CONSTRUCTION ASSISTANCE

EVALUATION RATING: ~~GOOD~~ ~~INADEQUATE~~ MARGINAL ~~POOR~~

1. SUMMARIZE THE ACTIVITY OR FUNCTION AND COMMENT ON ITS ADEQUACY AS IT RELATES TO THE STATE'S TOTAL WATER POLLUTION CONTROL EFFORT:

   There is no financial assistance to municipalities. Assistance consists largely of advising and consulting. State statute does not require bond elections to incur cost for construction of needed facilities.

2. IMPROVEMENTS OR EXPANSION PROPOSED BY THE AGENCY:

   NONE

3. GENERAL ADEQUACY OF THE AGENCY'S STAFF, BUDGET, ORGANIZATION AND STATUTES AS THEY RELATE TO SECTION BEING REVIEWED:

   The State's technical construction assistance program appears satisfactory, but, the limited staff precludes the inspection of waste treatment plants during construction.

4. FWQA RECOMMENDATIONS WHICH ARE MOST URGENT FOR IMPROVING THE STATE PROGRAM:

   a. Increase staff in order to inspect facilities during construction.

   b. Urge creation of a grant assistance program at a level necessary to receive maximum Federal assistance.

   c. Program should be expanded to meet the new construction grant eligibility requirements.

5. ADDITIONAL COMMENTS:

NONE

6. SUMMARIZE KNOWN ACCOMPLISHMENTS DURING THE PREVIOUS FISCAL YEAR:

None indicated in Plan other than advising and review of plans and specifications.

ANALYSIS OF PROGRAM ELEMENTS

PLAN ELEMENT: 4 WATER POLLUTION CONTROL FACILITIES

PLAN SECTION: 4.3 INDUSTRIAL WASTE TREATMENT ASSISTANCE

EVALUATION RATING: ~~XGOODX~~ ~~XADEQUATEX~~ MARGINAL ~~XPOORX~~

1. SUMMARIZE THE ACTIVITY OR FUNCTION AND COMMENT ON ITS ADEQUACY AS IT RELATES TO THE STATE'S TOTAL WATER POLLUTION CONTROL EFFORT:

The State does not provide financial assistance or tax incentives to industry. State law requires that plans and specifications must be approved by the State Department of Health. Technical assistance is provided upon request.

2. IMPROVEMENTS OR EXPANSION PROPOSED BY THE AGENCY:

NONE

3. GENERAL ADEQUACY OF THE AGENCY'S STAFF, BUDGET, ORGANIZATION AND STATUTES AS THEY RELATE TO SECTION BEING REVIEWED:

Program has probably been sufficient in the past to meet the low level of needs; however, implementation of the feedlot regulations will necessitate expansion of this program element in terms of manpower and budget.

4. FWQA RECOMMENDATIONS WHICH ARE MOST URGENT FOR IMPROVING THE STATE PROGRAM:

Increase staff time on this activity, particularly to meet cost recovery requirements under the new construction grants eligibility regulations.

5. ADDITIONAL COMMENTS:

NONE

6. SUMMARIZE KNOWN ACCOMPLISHMENTS DURING THE PREVIOUS FISCAL YEAR:

None indicated in the plan.

ANALYSIS OF PROGRAM ELEMENTS

PLAN ELEMENT: 4 WATER POLLUTION CONTROL FACILITIES

PLAN SECTION: 4.4 POLLUTION CONTROL PRIORITIES

EVALUATION RATING: ~~GOOD~~X ADEQUATE ~~MARGINAL~~ ~~POOR~~X

1. SUMMARIZE THE ACTIVITY OR FUNCTION AND COMMENT ON ITS ADEQUACY AS IT RELATES TO THE STATE'S TOTAL WATER POLLUTION CONTROL EFFORT:

The activity appears well operated and in the past has conformed to FWQA rules. Twenty communities with a total estimated cost of $1,056,000 comprise the one year needs list. Twelve of the communities listed are carry-overs from last year. It does not appear that the State will utilize the full construction grant allotment.

2. IMPROVEMENTS OR EXPANSION PROPOSED BY THE AGENCY:

None needed.

3. GENERAL ADEQUACY OF THE AGENCY'S STAFF, BUDGET, ORGANIZATION AND STATUTES AS THEY RELATE TO SECTION BEING REVIEWED:

Adequate except for including points for planning effort. (See Item 4.)

4. FWQA RECOMMENDATIONS WHICH ARE MOST URGENT FOR IMPROVING THE STATE PROGRAM:

Points should be given for planning, such as a river basin, regional planning, etc., in the priority rating system based on new construction grants planning requirements.

5. ADDITIONAL COMMENTS:

NONE

6. SUMMARIZE KNOWN ACCOMPLISHMENTS DURING THE PREVIOUS FISCAL YEAR:

FWQA records indicate that the only State facility listed in last year's plan as requiring improvement has completed necessary action also, no problems with regard to Federal facilities.

ANALYSIS OF PROGRAM ELEMENTS

PLAN ELEMENT: 5 TRAINING

PLAN SECTION: 5.1 TRAINING OF WASTE TREATMENT PLANT PERSONNEL

EVALUATION RATING: GOOD ~~ADEQUATE~~ ~~MARGINAL~~ ~~POOR~~

1. SUMMARIZE THE ACTIVITY OR FUNCTION AND COMMENT ON ITS ADEQUACY AS IT RELATES TO THE STATE'S TOTAL WATER POLLUTION CONTROL EFFORT:

The training program for waste treatment plant operators in North Dakota must be considered as one of the best in the Missouri Basin Region. The State cooperates with the North Dakota State University in sponsoring and conducting an annual short course training program for waste treatment plant operators and technicians. In FY 1970 the Department of Health received a CAMPS grant to train 40 water and waste water plant operators. The Department has made application for renewal of this training contract for this year to train an additional 45 operators.

2. IMPROVEMENTS OR EXPANSION PROPOSED BY THE AGENCY:

Renew CAMPS contract for FY 1971.

3. GENERAL ADEQUACY OF THE AGENCY'S STAFF, BUDGET, ORGANIZATION AND STATUTES AS THEY RELATE TO SECTION BEING REVIEWED:

The State makes adequate recognition of the need for training with 35 percent of the budget and 27 percent of their manpower allotted to training most of which is covered by the CAMPS grant. It appears that most of the emphasis is placed on operator--not staff training.

4. FWQA RECOMMENDATIONS WHICH ARE MOST URGENT FOR IMPROVING THE STATE PROGRAM:

a. Continue to participate in the CAMPS program.

b. Urge adoption of mandatory certification program.

5. ADDITIONAL COMMENTS:

The total non-allowable costs indicated in last year's expenditures and this year's budget represents the CAMPS grant which is a reimbursable procedure.

6. SUMMARIZE KNOWN ACCOMPLISHMENTS DURING THE PREVIOUS FISCAL YEAR:

Approximately 40 operators participated in the CAMPS program last year. The number of operators in the short course is not known.

ANALYSIS OF PROGRAM ELEMENTS

PLAN ELEMENT: 5 TRAINING

PLAN SECTION: 5.2 STAFF TRAINING

EVALUATION RATING: ~~GOOD~~ ~~ADEQUATE~~ MARGINAL ~~POOR~~

1. SUMMARIZE THE ACTIVITY OR FUNCTION AND COMMENT ON ITS ADEQUACY AS IT RELATES TO THE STATE'S TOTAL WATER POLLUTION CONTROL EFFORT:

As reported in the FY 1970 plan, there are no provisions or assistance from the agency for professional training of personnel, with the exception of educational leaves and staff participation in local courses or special courses when available. Most training consists of on-the-job training.

2. IMPROVEMENTS OR EXPANSION PROPOSED BY THE AGENCY:

No improvement or expansion reported.

3. GENERAL ADEQUACY OF THE AGENCY'S STAFF, BUDGET, ORGANIZATION AND STATUTES AS THEY RELATE TO SECTION BEING REVIEWED:

As stated in 5.1, greatest emphasis, in terms of money and manpower, is placed on operator training. There is no organized training program for professional staff.

4. FWQA RECOMMENDATIONS WHICH ARE MOST URGENT FOR IMPROVING THE STATE PROGRAM:

a. All staff members should attend at least one training course a year.

b. Encourage staff by means of stipends, leave with pay, travel allowances, advancement, etc., to attend FWQA and other training courses. Long term advanced academic training grants are available also and staff should be encouraged to make application and given leave to attend.

5. ADDITIONAL COMMENTS:

NONE

6. SUMMARIZE KNOWN ACCOMPLISHMENTS DURING THE PREVIOUS FISCAL YEAR:

None reported.

ANALYSIS OF PROGRAM ELEMENTS

PLAN ELEMENT: 6 POLLUTION CONTROL STUDIES AND PLANNING

PLAN SECTION:

EVALUATION RATING: XXXXX XADEQUATE MARGINAL XXXX

1. SUMMARIZE THE ACTIVITY OR FUNCTION AND COMMENT ON ITS ADEQUACY AS IT RELATES TO THE STATE'S TOTAL WATER POLLUTION CONTROL EFFORT:

There are no major changes in this activity. Based on its limited staff, the Agency is fairly active in this element and it appears they are cognizant of the need for long term studies and planning; however, the size of the staff limits them mainly to "trouble shooting" at this time.

2. IMPROVEMENTS OR EXPANSION PROPOSED BY THE AGENCY:

No great improvement in this program element in terms of money or man-power is noted. The State is continuing the inventory of industrial wastes and is working with the Souris-Red-Rainy River Basins Commission in developing the water quality management section of a comprehensive plan for water and related land resources in these three basins. Several other studies are underway.

3. GENERAL ADEQUACY OF THE AGENCY'S STAFF, BUDGET, ORGANIZATION AND STATUTES AS THEY RELATE TO SECTION BEING REVIEWED:

The agency's staff, and budget and organization remain unchanged and is not sufficient to do the total job. Only three percent of the budget and staff are allocated to this element. It is difficult to understand how the agency can do an adequate job on the projects now underway with such a small portion of their work force assigned to this element. At least three man-years need to be assigned to this element.

4. FWQA RECOMMENDATIONS WHICH ARE MOST URGENT FOR IMPROVING THE STATE PROGRAM:

a. An increase in staff and budget is needed to complete the industrial waste inventory, the subbasin water quality management portions of the State Water Plan, and to meet new basin planning requirements for construction grants.

b. The agency should take an active role in the preparation of the State Comprehensive Plan.

c. Adopt and implement the feedlot regulations.

d. Seek FWQA assistance to study the operation of the Bismarck-Mandan waste treatment system.

5. ADDITIONAL COMMENTS:

NONE

6. SUMMARIZE KNOWN ACCOMPLISHMENTS DURING THE PREVIOUS FISCAL YEAR:

a. Completed the Knife River Basin water quality management portion of the State Water Plan. Work presently underway on the Goose River Basin.

b. Continuing industrial waste inventory.

c. Special studies underway on the Little Muddy River and Little Stone Creek for the State Game and Fish Department.

ANALYSIS OF PROGRAM ELEMENTS

PLAN ELEMENT: 7 PUBLIC INFORMATION

PLAN SECTION:

EVALUATION RATING: GOOD ADEQUATE MARGINAL ROOK

1. SUMMARIZE THE ACTIVITY OR FUNCTION AND COMMENT ON ITS ADEQUACY AS IT RELATES TO THE STATE'S TOTAL WATER POLLUTION CONTROL EFFORT:

This activity remains unchanged from last year. There appears to be no formal public information program. However, much of the public information work is done after normal working hours and is not reflected in the budget or plan.

2. IMPROVEMENTS OR EXPANSION PROPOSED BY THE AGENCY:
No improvement or expansion proposed.

3. GENERAL ADEQUACY OF THE AGENCY'S STAFF, BUDGET, ORGANIZATION AND STATUTES AS THEY RELATE TO SECTION BEING REVIEWED:

Less than four percent of the budget and staff is allocated to this activity. Organization and statutes are adequate to support this element of their program. Manpower and budget is not adequate.

4. FWQA RECOMMENDATIONS WHICH ARE MOST URGENT FOR IMPROVING THE STATE PROGRAM:
At this time it would not be realistic to suggest the hiring of a full time public information officer with the present limited staff and the need for more field personnel. It is suggested that with additional funds this budget element be increased to approximately $6,000 with a half man-year of effort.

A positive program of preparation and decimation of information to the public noting problems and accomplishments would seem essential for an adequate program.

5. ADDITIONAL COMMENTS:

NONE

6. SUMMARIZE KNOWN ACCOMPLISHMENTS DURING THE PREVIOUS FISCAL YEAR:

Agency personnel attend and participate in numerous programs and meetings. Many articles and pamphlets on the State's pollution control efforts are distributed.